



INSTITUT GUMÁRENSKÉ TECHNOLOGIE A TESTOVÁNÍ, A.S.
RUBBER TECHNOLOGY AND TESTING INSTITUTE, Plc.
INSTITUT FÜR GUMMITECHNOLOGIE UND PRÜFWESEN, A.G.
A.O. «ИНСТИТУТ ТЕХНОЛОГИИ РЕЗИНЫ И ИСПЫТАНИЙ»

Společnost je zapsána v obchodním rejstříku vedeném Krajským soudem v Brně, oddíl B, vložka 818



Zlín 16th December 2024

E8*75R00/20*1639*00

Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6
4000 Kranj
SLOVENIA

Communication concerning the approval and notification of approval number and inspection report issued by Inspection body IGTT

Tyre type fully complies requirements of ECE/UN R75.

Enclosed you will find the Communication concerning the approval of your tyres according to ECE/UN Regulation No. 75

On the base of this approval you are entitled to produce in your factory tyres of the dimension:

180/55ZR17 MITAS SPORT FORCE+ (73W)

with the approval number : **E8 75R - 001639**
date of inspection : **16th December 2024**

inspector's name : **Václav Hořelka**

Sincerely yours,



Václav Hořelka
Head Of Tyre Approval Department
Head Of Inspection Body IGTT

**APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE
FOR MOTORCYCLES AND MOPEDS ACCORDING TO ECE REGULATION No. 75**

E8 75R – 001639

4.1.1. Tyre size designation:	180/55ZR17
4.1.2. Manufacturers name, tyre name:	MITAS, SPORT FORCE+
4.1.3. The category of use:	NORMAL
4.1.4. Structure (diagonal, bias belted, radial):	RADIAL
4.1.5. The speed category:	73
4.1.6. The load-capacity index of the tyre:	W
4.1.7. Tube type or Tubeless:	TUBELESS
4.1.8. Normal or Reinforced:	NORMAL
4.1.9. Ply rating number of tyres for motorcycle derivatives:	TREAD: 2 POLYESTER +1 STEEL SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 184.6 mm Overall diameter: 635 mm
4.1.11. The rims on which the tyre can be mounted:	5.50x17, 6.00x17
4.1.12. The measuring rim and test rim:	6.00x17
4.1.13. The test and measurement pressure	Test pressure: 320 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	0.8
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	280 km/h

Manufacturer's name and address:

Tyre Manufacturer (1)

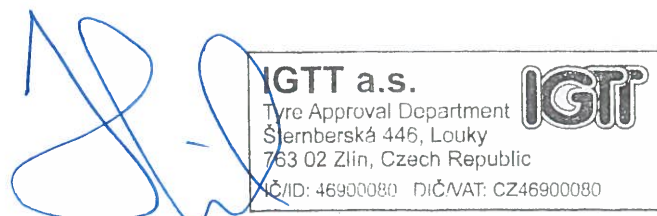
Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

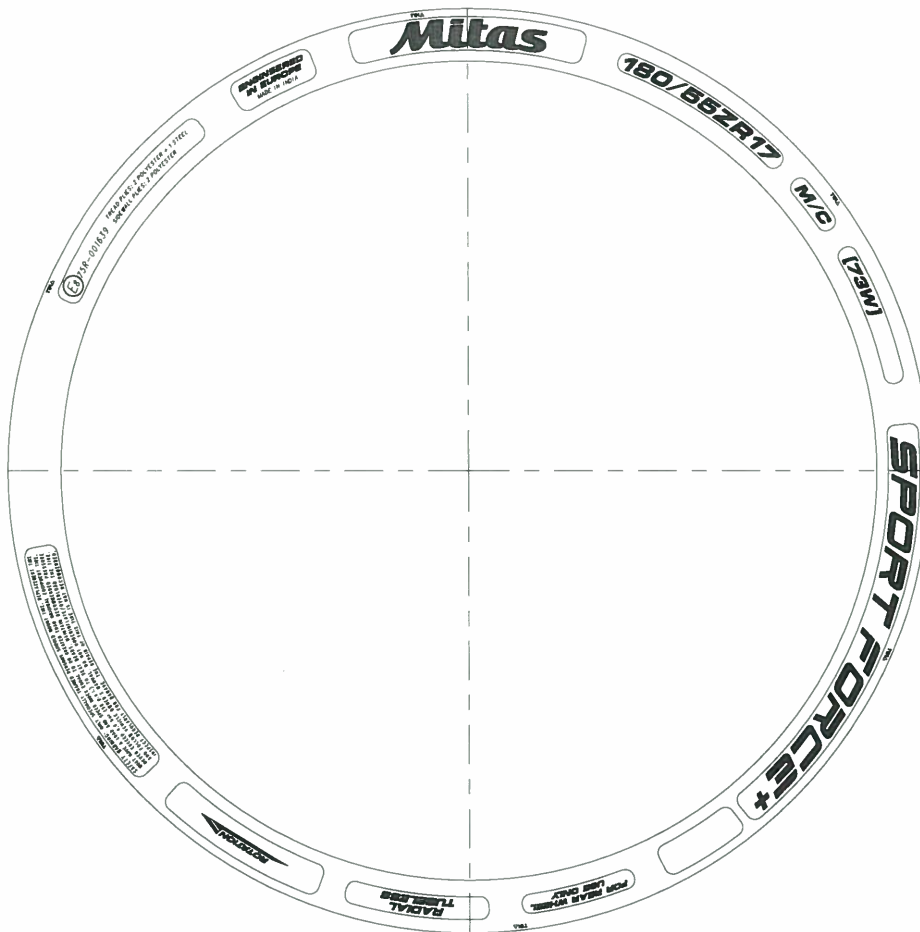
Tyre Manufacturer (2)

Reise Mitas Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140, India

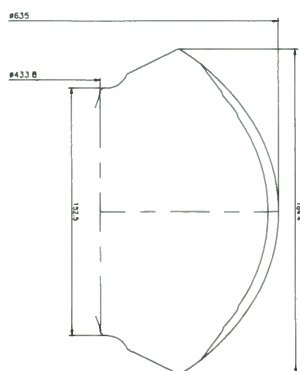
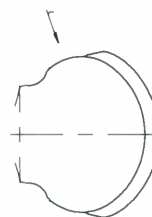
Tyre Manufacturer (3)

Yokohama TWS Czech Republic a.s.
Vavrečkova 7248
760 02 Zlín, Czech Republic

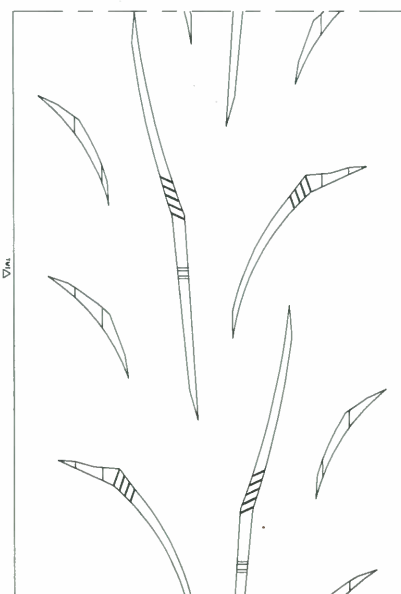




ORIENTATION ON TIRE - TOP HALF OF THE WOULD
(VIEW 1)



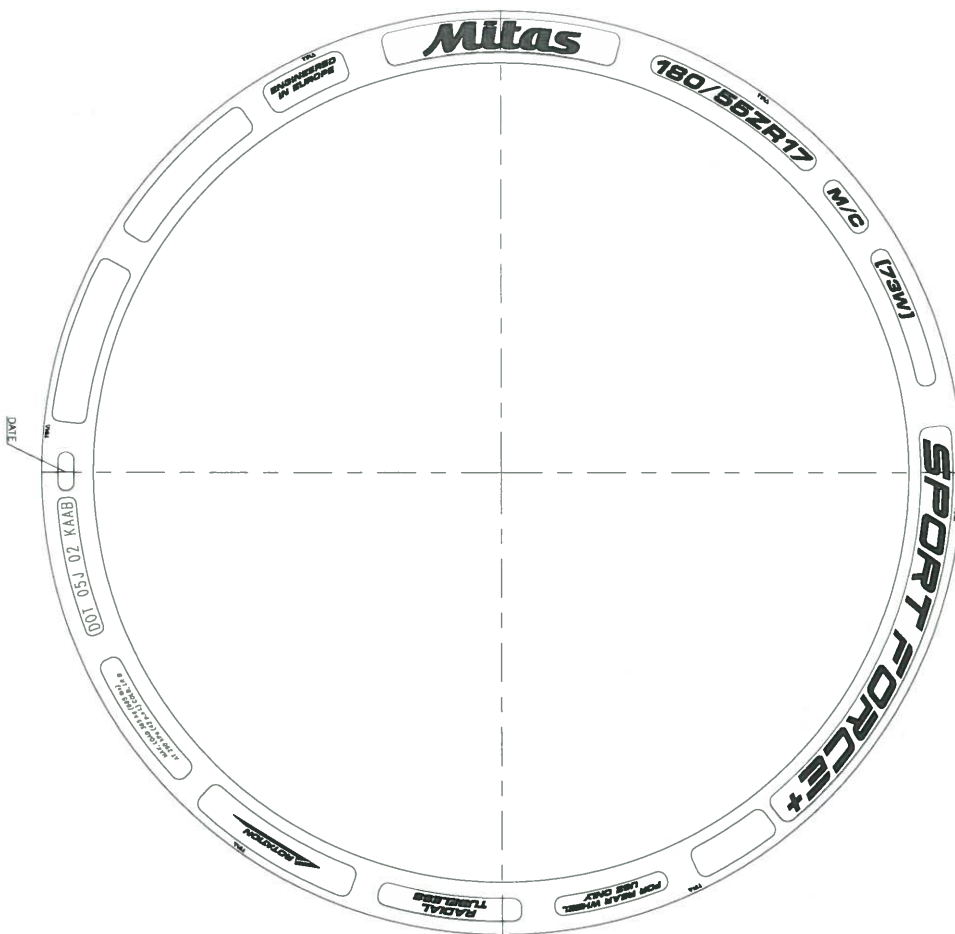
CROSS SECTION OF MOUNTED TIRE



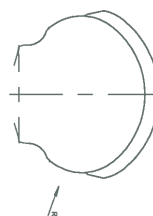
DETAIL (left) MITS SPORT FORCE+ PATTERN

Product Name		Mitas	
Product Code		180/55ZR17	
Product Description		SPORT FORCE+ PATTERN	
Product Type		RADIAL TUBELESS	
Product Size		180/55ZR17	
Product Weight		18.5 kg	
Product Volume		1.8 m³	
Product Price		1.8 m³	
Product Date		1.8 m³	
Product Location		1.8 m³	
Product Status		1.8 m³	
Product Notes		1.8 m³	

IGTT a.s.
Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IGTT: 46900080 DIČ/VAT: CZ46900080



DESIGN ON THE BOTTOM HALF OF THE MODEL
(VIEW 1)



Mitas	
Model	180/66ZR17
Size	180/66ZR17
Speed	180/66ZR17
Weight	180/66ZR17
Pressure	180/66ZR17
Temp	180/66ZR17
Humidity	180/66ZR17
Altitude	180/66ZR17
Latitude	180/66ZR17
Longitude	180/66ZR17
Time	180/66ZR17
Date	180/66ZR17
Signature	180/66ZR17
Stamp	180/66ZR17

[Handwritten signature]

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Tyre Approval Department	
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763 02 Zlín, Czech Republic	
IČ/ID: 46900080 DIČ/VAT: CZ46900080	



TEST REPORT No. 2024 - 5044

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer:	Yokohama TWS Slovenia, d.o.o.	Requirement No.:	BG/24072
	Škofjeloška cesta 6	Dept.:	Moto Kran Task: 11B/2024/BG
	4000 Kranj	Project No.:	11B/2024/BG
	Slovenia	Application date:	12. 11. 2024
	Responsible: Mr. Gubanc	Report issue date:	14. 11. 2024
Test motive: Proto. tires dot4224 V2 (ECE homolog.)			

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	59564						
	Dimension	180/55ZR17	Name:	Mitas Sport Force+							
	Designation	P	Product:	YTWS India	Approval	E8 75R 001639					
	LI:	73	SS:	W	IP:	290 kPa	PR	LR:	B	Type	TL
	Weight:	6,7 kg	Measuring rim	5,50x17	DOT:	05J	DOP:	4224			
Vmax = 280 km/h (73W)											

3. Test:	Sidewall lettering inspection
	Method: KPB-M-003 accredited

4. Test condition:	Testing machine:	-	Drum:	-	mm	Ambient temperature:	25±5°C			
	Testing rim:		Inflation:		kPa					
	Load:		daN	Drum speed:		km/h	Slip:	0°	Camber:	0°
	Cycle min/max:			Track min/max:			km			

5. Results:	See appendix of protocol 2024-5044.

Undergo cycles: Undergo track: km

6. Evaluation:	Criterion defined in ECE-R75 and other standards
	U = 0,5 mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix:	1. Tyre lettering inspection

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



IGTT a.s.
Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČ/ID: 46900080 DIČ/VAT: CZ46900080



Sample No.: 59564

Size:

180/55ZR17

Mitas Sport Force+

Method:

KPB-M-003

Date:

14. 11. 2024

Dimension of approval mark:

diameter of circle:

12 mm

height of letter E:

6 mm

height of number:

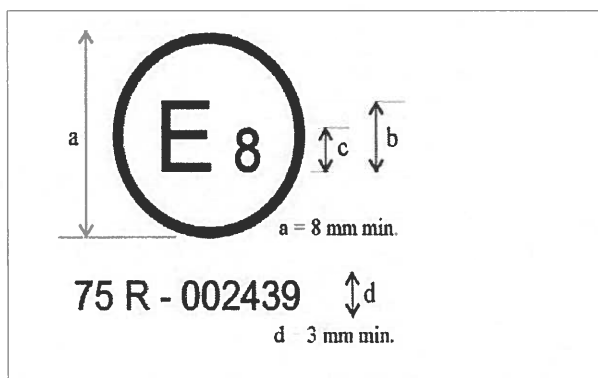
4 mm

height of text 75R.....:

4 mm

Sidewall lettering:b $\geq$ 4 mm (min):

4 mm



b

TUBELESS

M + S

Measured where (text):

Tubeless

Size designation (text) :

Yes

Structure (diagonal/bias belted/radial):

R

Trade name (mark):

Yes

Speed category (mark):

Yes

Load capacity (mark):

Yes

Ply rating (mark):

No

TUBELESS (text):

Yes

REINFORCED or REINF (text):

No

M+S or M.S or MaS (mark):

No

MST (mark):

No

Date of production (wwyy):

Yes

M/C (mark):

Yes

MOPED or CYCLOMOTEUR (text):

-

(W) for SS>270km/h:

Yes

Running rotation (mark):

Yes

Visible defects or damages:

No

QC check mark (stamp):

Yes

Manuf.name or country of or

Yes

TWI markings:

Yes

DP (mark):

No

NHS (mark):

No

TEST REPORT No. 2024 - 5045

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer:	Yokohama TWS Slovenia, d.o.o.	Requirement No.:	BG/24072
	Škofjeloška cesta 6	Dept.:	Moto Kran Task: 11B/2024/BG
	4000 Kranj	Project No.:	11B/2024/BG
	Slovenia	Application date:	12.11.2024
	Responsible: Mr. Gubanc	Report issue date:	15.11.2024
Test motive: Proto. tires dot4224 V2 (ECE homolog.)			

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	59564						
	Dimension	180/55ZR17	Name:	Mitas Sport Force+							
	Designation	P	Product:	YTWS India	Approval	E8 75R 001639					
	LI:	73	SS:	W	IP:	290 kPa	PR	LR:	B	Type	TL
	Weight:	6,7 kg	Measuring rim	5,50x17	DOT:	05J	DOP:	4224			
Vmax = 280 km/h (73W)											

3. Test:	Measurement of tyre dimensions	
	Method:	MZR-M-003 accredited

4. Test condition:	Testing machine:	-	Drum:	- mm	Ambient temperature:	25±5°C		
	Testing rim:	MT6,00x17 H2	Inflation:	280 kPa				
	Load:	daN	Drum speed:	km/h	Slip:	0°	Camber:	0°
	Cycle min/max:		Track min/max:			km		

5. Results:	Overall diameter: 635 mm	
	Overall width: 184,6 mm	

Undergo cycles: Undergo track: km

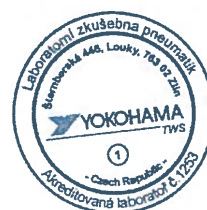
6. Evaluation:	Criterion	defined in ECE-R75
	Udiam = 1,5 mm; Uwidth = 1,0 mm	

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix:	1. Measurement of the tyre dimensions
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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



IGTT a.s.
Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČO: 46900080 DIČ/VAT: CZ46900080

Annex to protocol No.:2024 - 5045 Measurement of tyre dimensions

Printed: 15.11.2024

Sample No 59564 Tyre size: 180/55ZR17 Mitas Sport Forc Method: MZR-M-003

Date of measurement	Tyre		Tyre width at six points on circumference						Overall tyre	
	inflation	cicumf.	1	2	3	4	5	6	width	diameter
	kPa	mm	mm	mm	mm	mm	mm	mm	mm	mm
15.11.2024	280	1 995	184,4	184,4	184,3	184,6	184,6	184,2	184,6	635

TEST REPORT No. 2024 - 5046

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer:	Yokohama TWS Slovenia, d.o.o.	Requirement No.:	BG/24072
	Škofjeloška cesta 6	Dept.:	Moto Kran Task: 11B/2024/BG
	4000 Kranj	Project No.:	11B/2024/BG
	Slovenia	Application date:	12.11.2024
	Responsible: Mr. Gubanc	Report issue date:	18.11.2024
Test motive: Proto. tires dot4224 V2 (ECE homolog.)			

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	59564						
	Dimension	180/55ZR17	Name:	Mitas Sport Force+							
	Designation	P	Product:	YTWS India	Approval	E8 75R 001639					
	LI:	73	SS:	W	IP:	290 kPa	PR	LR:	B	Type	TL
	Weight:	6,7 kg	Measuring rim	5,50x17	DOT:	05J	DOP:	4224			
Vmax = 280 km/h (73 W)											

3. Test:	Speed test
	Method: RZ-M-003 accredited

4. Test condition:	Testing machine:	H2L	Drum:	2000 mm	Ambient temperature:	38±3°C		
	Testing rim:	MT6,00x17 H2	Inflation:	320 kPa	capped			
	Load:	174 daN	Drum speed:		Slip:	0°	Camber:	0°
	Cycle min/max:		Track min/max:			km		

5. Results:	Without failure.
	Difference of tyre circumference at start and at end of test: 0 %

Undergo cycles: 106 322 Undergo track: 210 km

6. Evaluation:	Criterion	no defects and circumf.difference before and 6h after test max. ±3,5%
	Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h;	
	Uload = 5% (40 - 500 daN), 1% (501 - 30000 daN)	
	U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%	

7. Appendix:	1. Drum tyre test record
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8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



IGTT a.s.
Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČ/ID: 46900080 DIČ/VAT: CZ46900080

Sample No.: 59564		Dimension:		180/55ZR17		Mitas Sport Force+		Test:		RZ-M-003			
ID No.	Test stage	Date time dd.mm.yyyy hh:mm:ss	Step duration hh:mm:ss	Test duration hhh:mm:ss	Speed km/h	Load daN	Inflation kPa	Radius mm	Surface °C	Room °C	Distance km	Cycles	Diameter/ deflection mm
1	Start	17.11.2024 7:02:22	000:00:00	000:00:00			320			35,0			635
2	Cont	17.11.2024 7:23:01	000:20:00	000:20:00	120,0	175		310		35,4	40	20 328	8
3	Cont	17.11.2024 7:33:03	000:10:00	000:30:00	240,0	175		311		35,3	80	40 636	7
4	Cont	17.11.2024 7:43:06	000:10:00	000:40:00	250,0	175		311		34,9	122	61 712	7
5	Cont	17.11.2024 7:53:08	000:10:00	000:50:00	260,0	175		311		34,9	165	83 602	7
6	Cont	17.11.2024 8:03:10	000:10:00	001:00:00	270,0	175		311		35,0	210	106 322	7
7	Int:M	17.11.2024 8:11:35	000:08:25	001:00:00						35,0			
8	Int:O	17.11.2024 14:33:38	006:22:03	001:00:00			311			35,0			635
9	End	17.11.2024 14:33:42	000:00:04	001:00:00						35,0			

Tyre width immediately after end of test(mm): 187,3 - 186,9 - 186,7 - 187,2 - 187,0 - 187,3

Change of tyre circumference before test and 6h after test (%): 0,00

TEST REPORT No. 2024 - 5050

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer:	Yokohama TWS Slovenia, d.o.o.	Requirement No.:	BG/24072
	Škofjeloška cesta 6	Dept.:	Moto Kran Task: 11B/2024/BG
	4000 Kranj	Project No.:	11B/2024/BG
	Slovenia	Application date:	12.11.2024
	Responsible: Mr. Gubanc	Report issue date:	21.11.2024
Test motive: Proto. tires dot4224 V2 (ECE homolog.)			

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	59566						
	Dimension	180/55ZR17	Name:	Mitas Sport Force+							
	Designation		Product:	YTWS India	Approval	E8 75R 001639					
	LI:	73	SS:	W	IP:	290 kPa	PR	LR:	B	Type	TL
	Weight:	6,66 kg	Measuring rim	5,50x17	DOT:	05J	DOP:	4224			
Vmax = 280 km/h (73W)											

3. Test:	Speed test
	Method: RZ-M-0031 accredited

4. Test condition:	Testing machine:	H2L	Drum:	2000 mm	Ambient temperature:	38±3°C		
	Testing rim:	MT6,00x17 H2	Inflation:	320 kPa	capped			
	Load:	233 daN	Drum speed:		Slip:	0°	Camber:	0°
	Cycle min/max:		Track min/max:				km	

5. Results:	Without failure.	
	Difference of tyre circumference at start and at end of test: 0,1 %	

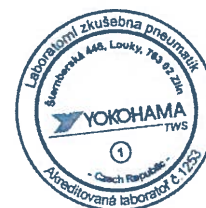
Undergo cycles: 97 762 Undergo track: 193 km

6. Evaluation:	Criterion	no defects and circumf.difference before and 6h after test max. ±3,5%
	Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h;	
	Uload = 5% (40 - 500 daN), 1% (501 - 30000 daN)	
	U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%	

7. Appendix:	1. Drum tyre test record

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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 59566		Dimension: 180/55ZR17		Mitas Sport Force+		Test: RZ-M-0031							
ID No.	Test stage	Date time dd.mm.yyyy hh:mm:ss	Step duration hhh:mm:ss	Test duration hhh:mm:ss	Speed km/h	Load daN	Inflation kPa	Radius mm	Surface °C	Room °C	Distance km	Cycles	Diameter/ deflection mm
1	Start	18.11.2024 9:04:55	000:00:00	000:00:00			320			34,4			635
2	Cont	18.11.2024 9:25:30	000:20:00	000:20:00	125,0	233		307		34,5	42	21 249	11
3	Cont	18.11.2024 9:45:32	000:20:00	000:40:00	250,0	233		309		35,0	125	63 538	9
4	Cont	18.11.2024 9:55:34	000:10:00	000:50:00	265,1	233		309		35,4	169	85 892	9
5	Cont	18.11.2024 10:00:36	000:05:00	000:55:00	280,0	233		309		35,7	193	97 762	9
6	Int:M	18.11.2024 10:14:20	000:13:44	000:55:00						35,3			
7	Int:O	18.11.2024 17:17:41	007:03:21	000:55:00			308			35,3			635
8	End	18.11.2024 17:17:45	000:00:04	000:55:00						35,3			

Tyre width immediately after end of test(mm): 188,2 - 188,3 - 188,1 - 188,0 - 188,1 - 188,4

Change of tyre circumference before test and 6h after test (%): 0,05